O. Ocean Pout (Zoarces americanus)



Table summaries are in WP 1.1 pages 391-404

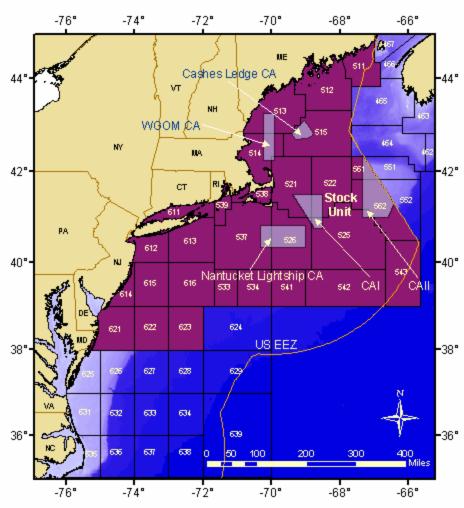


Figure 17.1. Statistical areas used to define the ocean pout stock.

O. Ocean Pout: Landings

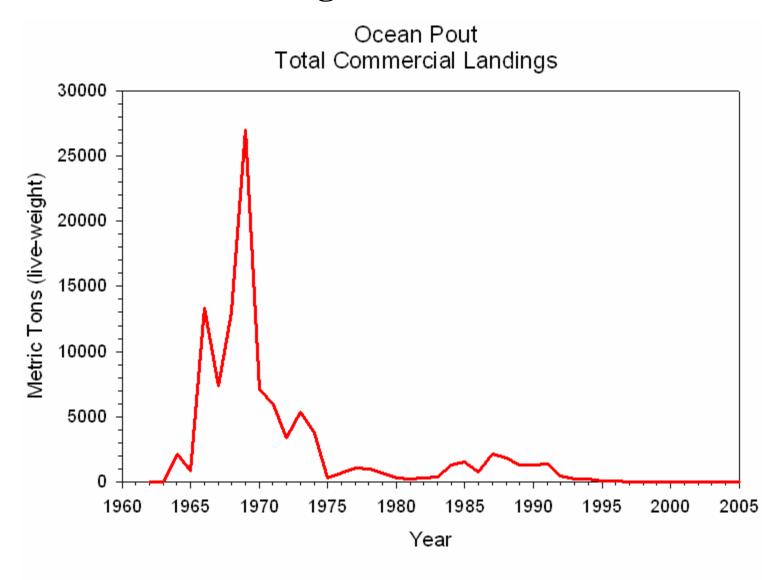
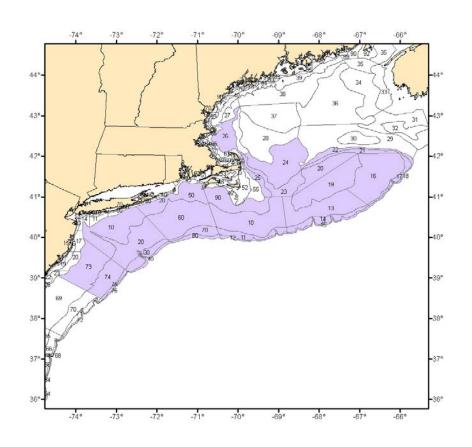


Figure 17.2. Total commercial landings of ocean pout, 1962-2005.

O. Ocean Pout: NEFSC survey



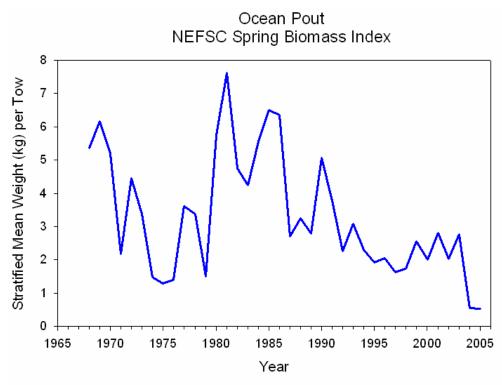


Figure 17.3. Biomass index (stratified mean weight per tow) for ocean pout from the NEFSC spring research vessel survey.

NEFSC offshore strata 1-26; 73-76

Biological Reference Points and Stock status

Yield and spawning stock biomass biological reference points are not known for ocean pout.

Biological reference points are survey-based:

Bmsy proxy = 4.9 kg/tow median survey biomass (1980-1991) MSY = 1,500 mtFmsy proxy = 0.31 (1.5/4.9)

In 2004, the 3-yr average survey index was below the Bmsy proxy and the relative exploitation ratio was below the Fmsy proxy.

Ocean pout was in an overfished condition but overfishing did not occur in 2004.

History of current approach

An index-based assessment has been conducted for ocean pout since 1990 using NEFSC spring survey (1968+) and landings.

Stock status is evaluated using a 3-yr moving average biomass (NEFSC spring survey kg/tow) and an exploitation ratio (landings / 3-yr average spring survey biomass).

In 2002, An Index-base Method (AIM) was explored using the replacement ratio analysis. A weak relationship between replacement ratio and relative F exists, indicating the input data for this species may be imprecise. It was concluded that these analyses were not informative to determine biological reference points.

In 2005 ocean pout was assessed using survey biomass and an exploitation ratio. Discards were estimated for 1989 to 2004.

Strengths and weaknesses

Long time series of data Limited biological data are available GARM 2005 recommended estimating discards prior to 1989

Feasibility of changing assessment models

Changing models will be challenging without additional data Use total catch (landing + discards) for the exploitation ratio

Proposed Model for GARM 2008

We propose using the same index-based approach used in GARM 2005 (survey biomass and relative exploitation, using total catch).

Ocean Pout

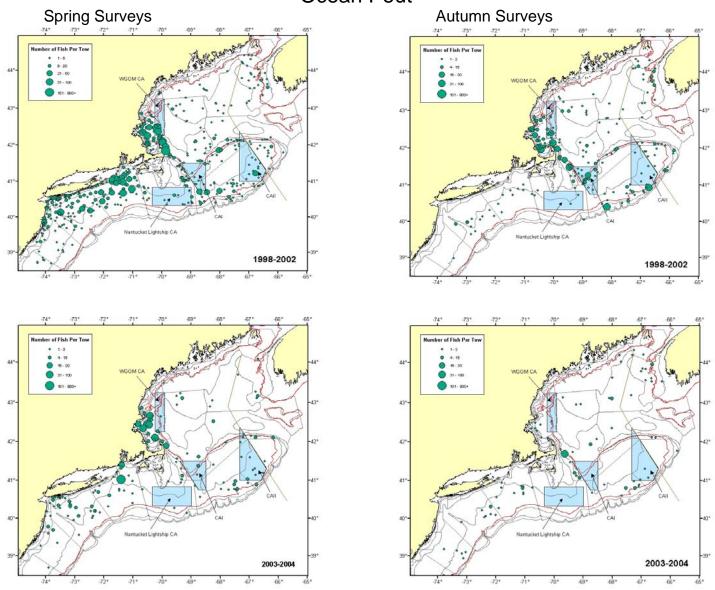
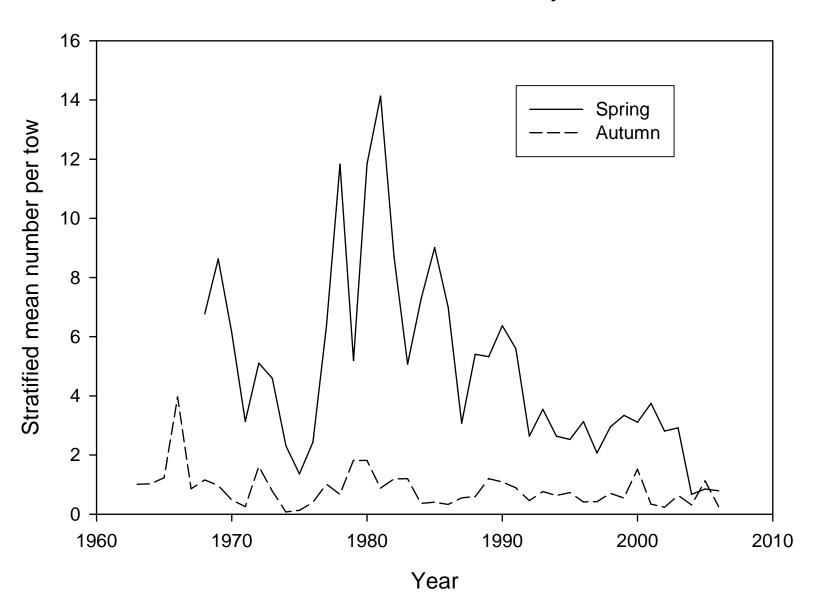
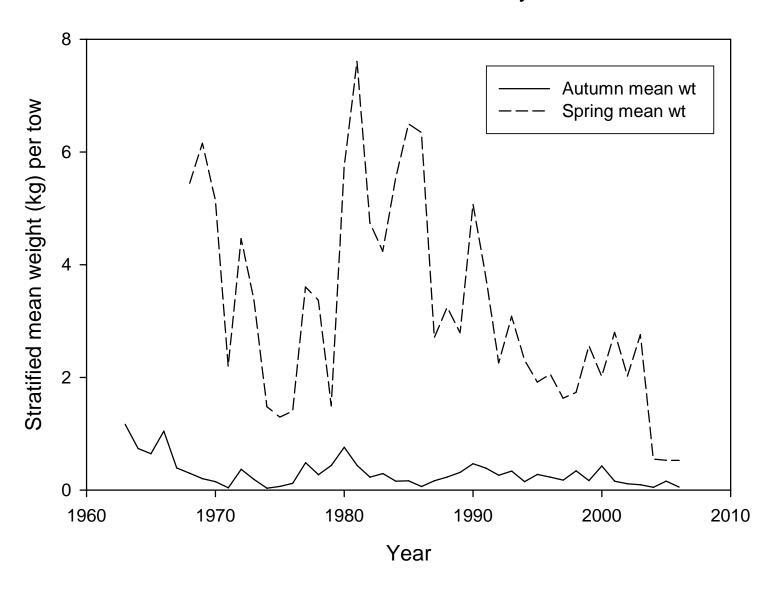


Figure . Distribution of ocean pout in the NEFSC spring and autumn bottom trawl surveys from 1999-2002 and 2003-2004.

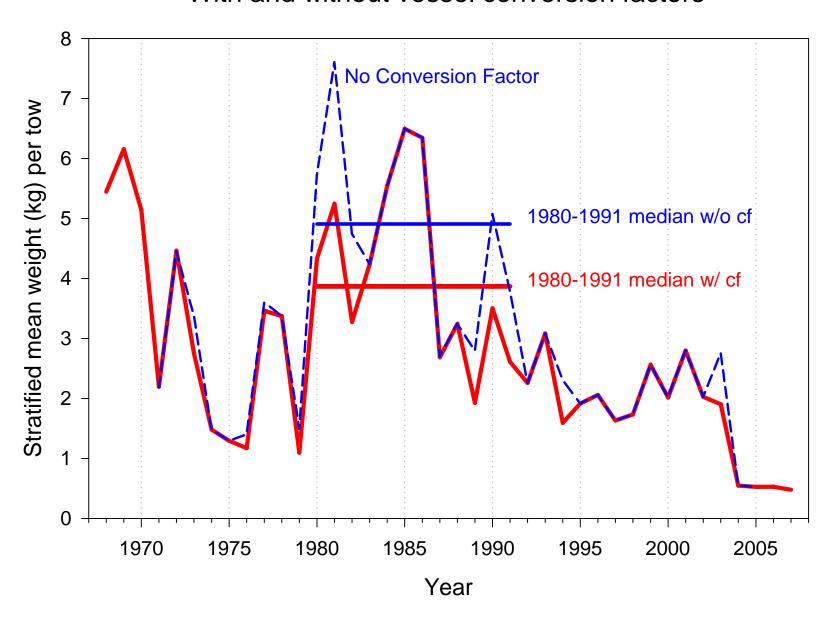
Ocean Pout NEFSC surveys



Ocean Pout NEFSC surveys



Ocean pout NEFSC spring index With and without vessel conversion factors



Ocean pout NEFSC spring index

